

Title (en)

Air/water heat exchange apparatus

Title (de)

Luft-/Wasserwärmeaustauschervorrichtung

Title (fr)

Appareil d'échange thermique air/eau

Publication

**EP 1959204 B1 20110803 (EN)**

Application

**EP 08000874 A 20080117**

Priority

- JP 2007032568 A 20070213
- JP 2007032567 A 20070213

Abstract (en)

[origin: EP1959204A1] An object is to provide a cost saving and energy efficient air/water heat exchange apparatus by utilizing parts of an outdoor unit designed for a separate type air conditioner, and thus utilizing existing plant and equipment. The air/water heat exchange apparatus includes the outdoor unit that is separated by the separator into the fan room and the machine room. The fan room includes an air-refrigerant heat exchanger that exchanges heat between air and the refrigerant, and the fan that sends the air to the air-refrigerant heat exchanger. The machine room includes the compressor that compresses the refrigerant, the plate heat exchanger that exchanges heat between the refrigerant and water, the electronic expansion valves, and the accumulator that accumulates the refrigerant. The outdoor unit contains the closed refrigerant circuit, which includes the compressor, the plate heat exchanger, the electronic valves, the air-refrigerant heat exchanger, and the accumulator.

IPC 8 full level

**F24F 1/00** (2011.01); **F24F 13/20** (2006.01)

CPC (source: EP)

**F24F 1/12** (2013.01); **F24F 1/16** (2013.01); **F24F 1/46** (2013.01); **F24F 1/54** (2013.01); **F24F 13/20** (2013.01)

Cited by

EP3124890A1; CN101846370A; CN106642416A; CN102052720A; EP3260785A4

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

**EP 1959204 A1 20080820; EP 1959204 B1 20110803**

DOCDB simple family (application)

**EP 08000874 A 20080117**